

Patent Abstracts of Japan

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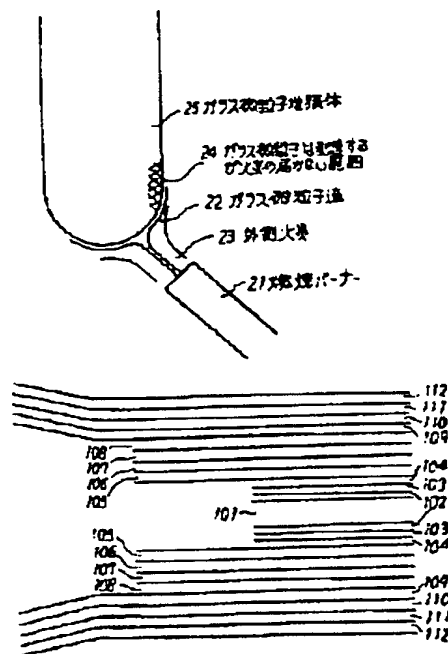
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APPLICANT : SUMITOMO ELECTRIC IND LTD;

INVENTOR : YOKOTA HIROSHI;

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TITLE : MANUFACTURE OF OPTICAL FIBER
PREFORM



ABSTRACT : PURPOSE: To stably manufacture high quality glass preform by using burners consisting of plural ports for synthesis of glass particulates as inside and for flame forming as outside in the case of synthesizing aggregate of glass particulates by soot synthesis method.

CONSTITUTION: Gaseous raw material is ejected from combustion burner 21 for reaction in flame 23 and the formed glass particulates are deposited and collected to prepare a deposit body of glass particulates 25. This deposit body 25 is heated to higher than glass transition temperature and to produce transparent glass preform. In such soot synthesis method, combustion burner consisting of inside ports 101-107 for synthesis of glass particulates and outside ports 108-112 for forming flame are used. The above-mentioned ports 108-112 for forming flame are made into outside-widen shape so that deposited glass on the parts 24 of surface of preform where flame of burner is difficult to arrive can be heated.

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